FIG_1

sheet 1 of 2

⊚ – Transmitters/Receivers of Long –Range Areas

○ – Receivers of Closed and Short–Range Areas

● – Transmitters of Closed and Short–Range Areas

Logic of Signals for Intrusion Justification

Alternative sequences of detected signals in echelons			Versions of intrusion in eshelons			Versions of self-checking results	Notes
C	S	L	Ingress	Egress	Presence inside		
C →C					+	May also mean an unauthorized discloser of protected housing.	Emitted ultrasound goes outside.
C →S				+		Target moves to echelon L ? Check it.	
S →C			+			Target moves from echelon L ? Check it. Echelon L may be in the failed state.	
C →L				+		Target moves inside echelon L ? Check it. Echelon S may be in the failed state.	
L →C			+			Target moves inside echelon C ? Check it. Echelon S may be in the failed state.	
	S →S				+	Target moves in echelon S? Check it. Other echelons C and L may be in the failed state.	
	S →L			+		Target moves from echelon C ? Check it. Echelon C may be in the failed state.	
	L →S		+			Target moves to echelon C? Check it. Echelon C may be in the failed state.	
		L →L			+	Target moves inside echelon L ? Check it. An intruder may not be threat if it passes by the echelon S.	

Note: Arrows show the directional sequence of acquired signals.　　**FIG. 2**　　sheet 2 of 2